The Future of Neurosciences

Neurology Fellowship Programs
About Jefferson

As an academic medical center founded in 1825, the Thomas Jefferson University Hospitals now have 957 licensed acute care beds and major programs for a wide range of clinical specialties. Services are delivered at several locations — Center City, Jefferson Hospital for Neuroscience, Methodist Hospital, in South Philadelphia, Jefferson HealthCARE — Voorhees, in New Jersey, and several ambulatory care satellites and radiation therapy centers.

Thomas Jefferson University Hospital has major programs for orthopedics, heart disease, cancer treatment, neuroscience, otolaryngology — head and neck surgery, high-risk childbirth, genetics, radiology, digestive diseases and many other areas of medicine and surgery. It is one of only a few hospitals in the United States that is both a Level I Trauma Center and a federally designated regional spinal cord injury center. The Kimmel Cancer Center at Jefferson is designated as a clinical cancer center by the National Cancer Institute.

The hospital is a founding member of the Jefferson Health System. The Jefferson Health System is the largest health system in the Delaware Valley with a total of 3,692 local licensed beds and operating revenues of nearly $3 billion. The system hospitals employ nearly 27,000 individuals. In addition to Thomas Jefferson University Hospitals, members of the Jefferson Health System include: Albert Einstein Healthcare Network; Frankford Hospitals; Magee Rehab and Main Line Health. For more information about the Jefferson Health System, visit: www.JeffersonHealth.org.

Message from the Chairman

Dear fellowship candidate:

It is a pleasure to provide information about various fellowship programs in the Department of Neurology at Thomas Jefferson University and Hospital.

Neurology at Jefferson has a long tradition of excellence in clinical training and care. Additionally, we are committed to providing an active and exciting research program in neurological diseases.

The faculty in the Department are engaged in cutting edge research basic understanding of disease etiology and pathogenesis as well as translational research to apply the findings in the laboratory to the bedside. Clinical trials of new treatments for neurological diseases are ongoing in all divisions of the department. Consolidation and coordination of our Department and research base at the new Jefferson Hospital for Neuroscience has further strengthened our capacity for excellence in patient care, education and research.

We provide clinical, research or combined fellowships in many areas of neurology and neurosciences. The fellowship program can be tailored to the fellows’ specific requirements.

The entire neurology faculty joins me in expressing appreciation for your interest in our programs. Feel free to contact us with any specific questions.

Sincerely,

A. M. Rostami, MD, PhD
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<tr>
<th>Fellowships</th>
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<td>Cerebrovascular &amp; Neuro Critical Care</td>
<td>1 year Stroke fellowship, 2 years Neuro-Critical Care fellowship</td>
<td>6</td>
<td>Rodney Bell, MD</td>
<td>Office: 215-955-4087 Email: <a href="mailto:rodney.d.bell@jefferson.edu">rodney.d.bell@jefferson.edu</a></td>
</tr>
<tr>
<td>Clinical Neurophysiology</td>
<td>1 year</td>
<td>3</td>
<td>Maromi Nei, MD</td>
<td>Office: 215-955-1222 Email: <a href="mailto:maromi.nei@jefferson.edu">maromi.nei@jefferson.edu</a></td>
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<tr>
<td>Epilepsy</td>
<td>2 years</td>
<td></td>
<td>Goran Rakocevic, MD</td>
<td>Office: 215-955-9139 Email: <a href="mailto:goran.rakocevic@jefferson.edu">goran.rakocevic@jefferson.edu</a></td>
</tr>
<tr>
<td>EMG and Neuromuscular</td>
<td>1 year</td>
<td>1</td>
<td>Stephanie J. Nahas, MD, MSEd</td>
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</tr>
<tr>
<td>Headache</td>
<td>1 - 2 years</td>
<td>3</td>
<td>Thomas Leist, MD, PhD</td>
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<td>Multiple Sclerosis</td>
<td>2 years</td>
<td>1 - 2</td>
<td>A.M. Rostami, MD, PhD</td>
<td>Office: 215-955-8100 Email: <a href="mailto:a.m.rostami@jefferson.edu">a.m.rostami@jefferson.edu</a></td>
</tr>
<tr>
<td>Multiple Sclerosis with emphasis on basic research</td>
<td>2 - 3 years</td>
<td>1 - 2</td>
<td>Jennifer Hall, MD</td>
<td>Office: 215-928-3130</td>
</tr>
<tr>
<td>Neuro-ophthalmology</td>
<td>1 year</td>
<td>1</td>
<td>Karl Doghramji, MD</td>
<td>Office: 215-955-8175 Email: <a href="mailto:karl.doghramji@jefferson.edu">karl.doghramji@jefferson.edu</a></td>
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<tr>
<td>Sleep</td>
<td>1 year</td>
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<td>Fax: 215-592-1923</td>
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Opportunities
Fellowship Programs

Cerebrovascular Disease and Neurocritical Care

Jefferson is a major referral center for stroke and critically ill neurology and neurosurgery patients for the tri-state area. The Jefferson University System houses a total of 40 NICU and intermediate NICU beds, in addition to a 15-bed Acute Stroke Unit.

Our program has one of the largest Neurocritical Care Units in the country. Jefferson neurosurgery and endovascular neuroradiology program treats the highest volume of patients with aneurysms, brain AVMs, angioplasty, stenting occlusive carotids and intracranial disease in the nation. In this environment, stroke and NICU fellows will learn to become leaders in the academic field of stroke and neurocritical care. Fellowship can be tailored to meet each fellow’s goals and interests. There are two tracts: one year stroke training and two year neurocritical care training. Stroke fellows will learn inpatient and outpatient management of cerebrovascular disease. NICU fellows will supervise both neurology and neurosurgery residents and lead the team for daily patient care. Advanced training content in neurological critical care is based on the guidelines by the Society of Critical Care Medicine. Ample opportunities are available for clinical research study with large volume of patient data. There are 8 stroke and neurocritical care physicians in the division.

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Clinical Neurophysiology

This is an ACGME approved one-to-two year fellowship designed to provide well-rounded training for individuals interested either in clinical practice or an academic career. Training is provided in EEG, EMG, evoked potentials, video-EEG monitoring, and sleep along with an outpatient neurology experience. Clinical experience is supplemented by a didactic lecture series. Fellows have an opportunity to participate in clinical research.

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Electromyography and Neuromuscular Disease

The Neuromuscular/EMG fellowship at TJUH offers a one-year ACGME-approved clinical Neurophysiology fellowship in electromyography and neuromuscular disorders offering broad exposure to clinical neuromuscular diseases and training in EMG, nerve conduction studies, repetitive nerve stimulation, needle EMG and evoked potentials. The Neuromuscular Service provides clinical evaluations of patients with neuromuscular diseases, usually in conjunction with their electrophysiological studies. Though consisting mostly of outpatients, there is also opportunity to examine and perform electrodiagnostic tests with inpatients. Fellows learn electrophysiologic techniques including nerve conduction studies, repetitive nerve stimulation, needle EMG with semi-quantitative motor unit analysis, and review nerve and muscle biopsies in selected cases. Special emphasis is placed on developing expertise in electromyography and nerve conduction studies. The fellows become highly trained in the diagnosis and treatment of peripheral neuropathies, neuro-muscular junction disorders, myopathies, and motor neuron diseases. Interdisciplinary neuromuscular and EMG conferences are held weekly, with participation of colleagues from Neurosurgery, Neuropathology and Rehabilitation Medicine.

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Epilepsy

This is an ACGME approved fellowship (epilepsy track for clinical neurophysiology) consisting of a two-year training program at an internationally renowned epilepsy center. The fellowship offers training in diagnosis, medical management, and surgical treatment of epilepsy, along with instruction in EEG, video-EEG monitoring, use of intracranial electrodes, intraoperative monitoring, brain mapping, and evoked potentials. In the first year, education is well rounded in other areas of clinical neurophysiology so that fellows are eligible for the clinical neurophysiology boards. There is a strong emphasis on clinical research and teaching from a multidisciplinary faculty. This fellowship is designed for individuals who wish to pursue academic careers.

The epilepsy center is a multidisciplinary quaternary care center for diagnosis and treatment of people with epilepsy. The center has a national referral base. Center faculty includes 5 neurologists, 2 neuropsychologists, 2 neurosurgeons, and 1 radiologist. The center offers basic and advanced diagnostic testing and a full array of conventional and investigational medical and surgical treatments. The surgical program is among the largest in the US, performing 80-90 operations yearly.

In addition to its outpatient facilities, the epilepsy center maintains an inpatient video-EEG monitoring unit consisting of eight beds, each in a specially outfitted private room, where approximately 400 patients are admitted yearly. Patients are evaluated for diagnostic reasons, presurgical assessments, intracranial EEG recording, and management of uncontrolled seizures.

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Headache

The Jefferson Headache Center Fellowship program is an UCNS accredited fellowship at an internationally recognized headache center. It is dedicated to giving the trainee the highest quality preparation so that he or she can make contributions to patient care and advance the level of knowledge of headache medicine. The program will prepare the Fellow for a career in clinical headache practice or academic headache medicine. The Fellow will be exposed to outpatient and inpatient headache patient care, as well as clinical headache research involving epidemiology, neurophysiology, and therapeutic studies. In addition, a pediatric headache rotation is part of the program. Headache medicine is a unique subspecialty of neurology that requires knowledge not previously taught to trainees during their respective residency programs.

The Fellowship program consists of 12 months of training. The trainee will spend most of his or her time in the outpatient and inpatient headache units, but will have ample time to participate in research projects of their choosing. The trainee will see patients 4 days/week, with 2 half days/week devoted to research.

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Neuro-ophthalmology

Neuro-ophthalmologic care is provided by Wills Eye Hospital, one of the top three ophthalmology centers in the United States by U.S. News & World Report for the last 16 consecutive years. The Neuro-Ophthalmology Service provides a one-year fellowship for one fellow in one of the busiest neuro-ophthalmology practices in the country, working with approximately 5,000 patient visits annually. The surgical experience includes temporal artery biopsies, a variety of strabismus procedures, and optic nerve sheath decompression. The fellow is expected to be involved in a series of research projects resulting in publication. Resident and Medical Student education is included in the fellowship duties.

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Multiple Sclerosis

The Comprehensive Multiple Sclerosis Center utilizes an integrated approach to diagnosis and treatment of Multiple Sclerosis and other neuroimmunological disorders. It serves as a tertiary referral and teaching center and is allied with a multispecialty team of practitioners. It has special programs for clinically isolated syndromes, transverse myelitis, and spasticity management. Fellows have an opportunity to participate in ongoing clinical and ex vivo research into the immunology of neurological disorders, new treatment and diagnostic approaches, novel imaging modalities, and outcome and genetic studies in MS.

The Laboratory of Neuroimmunology offers qualified candidates further opportunities in basic and translational research in Multiple Sclerosis.

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Sleep

The ACGME-accredited Fellowship has been the focus of clinical, research, and education activity in sleep medicine since 1978. The program is a major facility for tertiary referrals not only for the larger Philadelphia area, but also for the northeastern US corridor. Since its inception, the program has welcomed referrals for the gamut of diagnostic entities in sleep medicine. Its director, Karl Doghramji, MD, dedicates most of his clinical, educational, and research activity to the field. Integral to the clinical and education program has been the support of a multidisciplinary network of physicians and other professional staff, representing otolaryngology, pulmonary medicine, psychiatry, neurology, psychology, pediatrics, cardiology, gastroenterology, nutritional health, and orthodontics. This diversity allows for a wide range of therapeutic options and education, such that treatment can be tailored to the underlying cause. The diversity of approaches represented by the multidisciplinary staff are embodied within the core faculty.

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Philly Facts

Thomas Jefferson University and Thomas Jefferson University Hospital are located in historic downtown Philadelphia, in proximity to numerous educational, cultural and recreational facilities, and a short walk from Philadelphia’s exciting waterfront. There is easy access to metropolitan New York and Washington, DC, areas. Affordable housing appropriate to resident needs is found throughout the city and surrounding counties.

• Attraction include: Independence Hall, Constitutional Center, Philadelphia Museum of Art, Franklin Institute, Philadelphia Zoo, Penn’s Landing, Rodin Museum, Valley Forge National Historic Park, Theatre district, Lincoln Financial Field, Citizen’s Bank, and the Comcast Center.

• Shopping flourishes in center city Philadelphia. The hospital is within walking distance to the heart of the shopping district.

• TJUH is located minutes from the Philadelphia International Airport, an hour from Atlantic City, NJ, a one and one-half hour drive to numerous skiing areas and within a two hour drive to New York City.

• Local colleges/universities: University of Pennsylvania, Villanova University, St. Joseph’s University, Temple University, LaSalle University, Drexel University, University of the Sciences in Philadelphia, Philadelphia College of Osteopathic Medicine.

• Sporting Events: Flyers and Phantoms hockey games, Eagles football games, Wings indoor lacrosse team, Phillies baseball team, Soul arena football team, Kixx soccer team, and the 76ers basketball team.